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Choose u and dv from. integral and compute du by differentiating u and compute v using v = dv. Trig Substitutions: If the integral contains the following root use the given substitution and . Explore top gifts · Shop stocking stuffersTypes: Automotive, Baby, Books, Fashion, Gift Cards, Music and more. VOLUME Rectangle Pyramid PYTHAGOREAN THEOREM SA = 2 ss 1 V = DISTANCE FORMULA ww Square EXPONENT LAWS Law of Sines Law of Cosines bbh 2. PERIMETER, AREA&VOLUME . Integrate the partial fraction decomposition (P.F.D.). For each factor in the denominator we get term(s) in the decomposition according to the following table. If n is odd. Strip one sine out and convert the remaining sines to cosines using sin 2 x = 1 - cos. 2. If m is odd. 1. Take the Partial Derivatives with respect to X and Y (fx andfy)(Canuse gradient) 2. Set derivatives equal to 0 and use to solve system of equations for x and y 3. Plug back into original equation for z. Use Second Derivative Test for whether points are local max, min, or saddle Second Partial Derivative Test 1. Find all (x,y) points such. Common Derivatives and Integrals Visit for a complete set of Calculus I & II notes. © Paul Dawkins Derivatives Basic Properties/Formulas/Rules d(cf()x)cfx() dx =¢, c is any constant. (f()x–g()x) ¢=–f¢¢()xgx() d(xnn)nx 1 dx =-, n is any number. ()0 d c dx =, c is any constant. (fg)¢=+f¢¢gfg.